

### KEY FEATURES

- High power handling: 600 W program power
- 2" copper wire voice coil
- High sensitivity: 95 dB (1W / 1m)
- FEA optimized ceramic magnetic circuit
- Low harmonic distortion and linear response
- Waterproof cone with treatment on both sides of the cone
- Optimized pressed steel frame
- Extended controlled displacement:  $X_{max} \pm 6$  mm
- 32 mm peak-to-peak excursion before damage
- Wide range of applications of low and mid-low frequencies



### TECHNICAL SPECIFICATIONS

Nominal diameter	200 mm	8 in
Rated impedance		8 $\Omega$
Minimum impedance		7,6 $\Omega$
Power capacity <sup>1</sup>	300 W <sub>AES</sub>	
Program power <sup>2</sup>	600 W	
Sensitivity	95 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	70 - 4.000 Hz	
Recom. enclosure	V <sub>b</sub> = 75 l	
(Bass-reflex design)	F <sub>b</sub> = 50 Hz	
Voice coil diameter	50,8 mm	2 in
BI factor	15,5 N/A	
Moving mass	0,028 kg	
Voice coil length	15 mm	
Air gap height	8 mm	
X <sub>damage</sub> (peak to peak)	32 mm	

### THIELE-SMALL PARAMETERS<sup>3</sup>

Resonant frequency, f <sub>s</sub>	69 Hz
D.C. Voice coil resistance, R <sub>e</sub>	5,9 $\Omega$
Mechanical Quality Factor, Q <sub>ms</sub>	2,7
Electrical Quality Factor, Q <sub>es</sub>	0,34
Total Quality Factor, Q <sub>ts</sub>	0,30
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	13,1 l
Mechanical Compliance, C <sub>ms</sub>	192 $\mu$ m / N
Mechanical Resistance, R <sub>ms</sub>	4,5 kg / s
Efficiency, $\eta_0$	1,4 %
Effective Surface Area, S <sub>d</sub>	0,022 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>4</sup>	6 mm
Displacement Volume, V <sub>d</sub>	132 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub> @ 1 kHz	0,9 mH

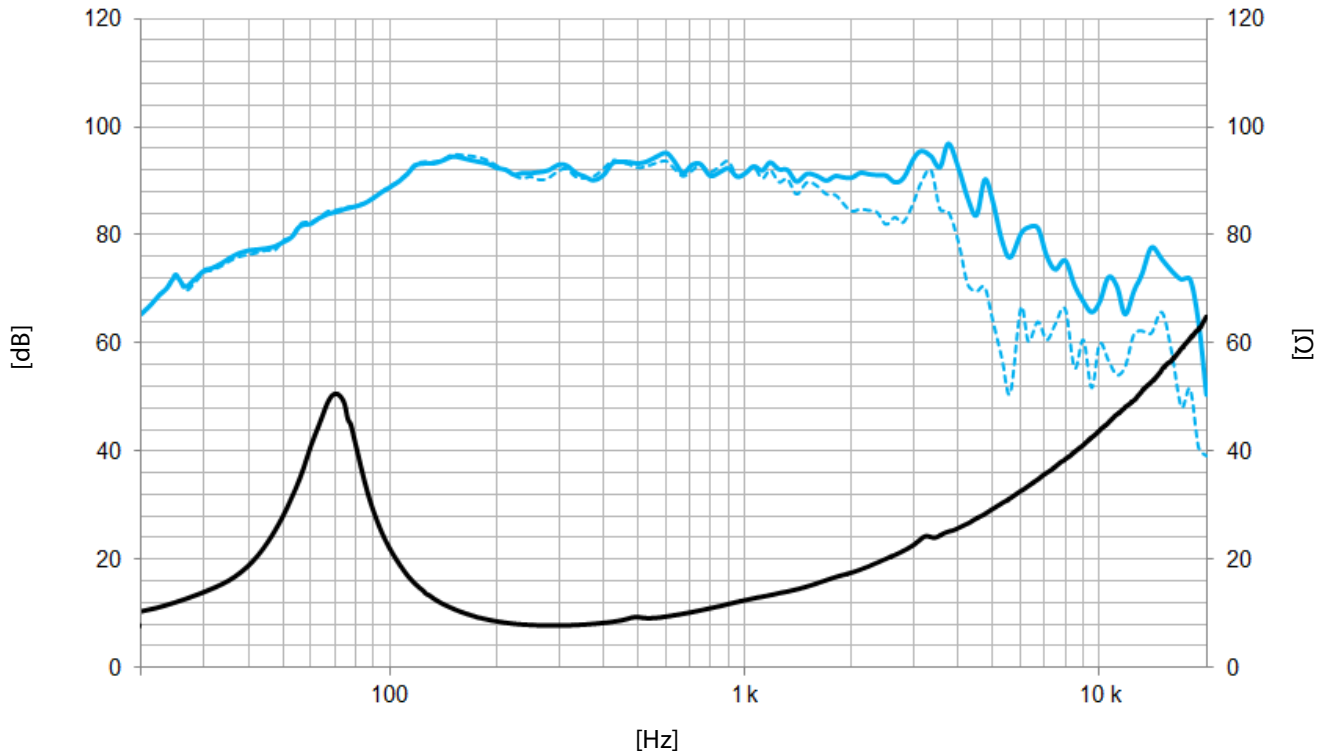
Notes:

<sup>1</sup> The power capacity is determined according to AES2-1984 (r2003) standard.

<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

<sup>4</sup> The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.



Note: Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

— Frequency response on axis  
- - - Frequency response 45° off axis

## MOUNTING INFORMATION

Overall diameter	210 mm	8,27 in
Bolt circle diameter	192 mm	7,56 in
<b>Baffle cutout diameter:</b>		
- Front mount	180 mm	7,08 in
Depth	95 mm	3,74 in
Net weight	3,25 kg	7,2 lb
Shipping weight	3,55 kg	7,8 lb

## DIMENSION DRAWING

